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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,415	01/29/2001	Shuichi Fujiwara	202142US2 CONT	6189

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ALEXANDRIA, VA 22314

EXAMINER

DHARIA, PRABODH M

ART UNIT	PAPER NUMBER
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2673

DATE MAILED: 07/16/2003

15

Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

09/770,415

Applicant(s)

FUJIWARA ET AL.

Examiner

Prabodh M Dharja

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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1. **Status:** Receipt is acknowledged of papers submitted on January 10, 2003 under reconsideration request have been placed of record in the file. Claims 1-20 are pending in this action.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over , Watanabe et al. (6,405,242) in view of Kobayashi (5,826,211) and Mizushima et al. (5,988,817).

Regarding Claims 1,11, Watanabe et al. teaches the projection display apparatus (transmits electronic data to be projected on a projection screen) (figure 1, Col. 6, Line 21,22) having communication interface (figure 1, Col. 6, Lines 16-19, Lines 1-4) controlled by a controller (figure 1, Col.5, Line 66 to Col. 6, Line 3) with an external device communicating to projection display device (transmits electronic data to be projected on a projection screen) via the I/O ports (Col. 6, Lines 4-7) has storage section (Col.3, Line 54,55) and controlling portion (figure 1, Col.5, Line 66 to Col. 6, Line 3). A controlling section (portion) configured to, in response to an initialization signal input (Col. 6, Lines 10-14) through the first communication port, (Col. 6, lines 1-4) and the second communication port adapted to be connected to an additional projection display apparatus (terminals (transmits electronic data to be projected on a

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projection screen) are connected via LAN and communicates to each other via LAN) (Col. 1, Lines 5-21, Col. 2, lines 6-16, Col. 6, Lines 11-26).

However Watanabe et al. does not teach specifically, a controlling section (portion) configured to, in response to an initialization signal input through the first communication port, store ID information in the storage section regarding an identity of the projection display apparatus based on the initialization signal, update the initialization signal into the storage section, according to a predetermined rule and transmit updated initialization signal through the second communication port, the control section further configured to, in response to a command input through the first communication port, determine whether or not the command is directed to itself as a projection display apparatus of interest, based on address information included in the command and the ID information included stored in the storage section, and the control section is further configured to carry out a processing specified by command if the command is directed to itself as projection display apparatus of interest.

However, Kobayashi teaches a controlling section (portion) (Col. 2, Lines 53,54) configured to, in response to an initialization signal input through the first communication port (Col. 2, Lines 60-62), store ID information in the storage section regarding an identity of an apparatus based on the initialization signal, update the initialization signal into the storage section, according to a predetermined rule (col.10, Line 63 to Col. 11, Line 4) and transmit updated initialization signal through the second communication port(Col. 11,Lines 5-40), the control section further configured to, in response to a command input through the first communication port, determine whether or not the command is directed to itself as a projection display apparatus of interest, based on address information included in the command and the ID

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information included stored in the storage section, and the control section is further configured to carry out a processing specified by command if the command is directed to itself as projection display apparatus of interest (Col. 12, Line 4 to Col. 13 Line 9)

Thus it would have been obvious to one in ordinary skill in the art at the time of invention was made to incorporate the teaching of Kobayashi in to the Watanabe et al. to have multi-projection system serially connected, thus multi-port communication could be achieved in point to point or broadcast environment.

Watanabe et al. teaches the projection display (transmits electronic data to be projected on a projection screen) apparatus (figure 1, Col. 6, Line 21,22) having communication interface (figure 1, Col. 6, Lines 16-19, Lines 1-4) controlled by a controller (figure 1, Col.5, Line 66 to Col. 6, Line 3) with an external device communicating to projection display device via the I/O ports (Col. 6, Lines 4-7) has storage section (Col.3, Line 54,55) and controlling portion (figure 1, Col.5, Line 66 to Col. 6, Line 3). A controlling section (portion) configured to, in response to an initialization signal input (Col. 6, Lines 10-14) through the first communication port, (Col. 6, lines 1-4); and the second communication port adapted to be connected to an additional projection display apparatus (terminals (transmits electronic data to be projected on a projection screen) are connected via LAN and communicates to each other via LAN) (Col. 1, Lines 5-21, Col. 2, lines 6-16, Col. 6, Lines 11-26).

However, Watanabe et al. fails to teach specifically the second communication port adapted to be connected to an additional projection display apparatus (optical instead of electronic).

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However, Mizushima et al. teaches the second communication (DMX 512 being serial communication, communication system, which allows second communication port to be connected to additional projection display apparatus) port adapted to be connected to an additional projection display apparatus (optical projection display apparatus) (Col. 5, lines 6-15, Col. Line 36 to Col. 4, Line 14, Col. 11, Lines 50-53, Col. 12, Lines 13-25).

Thus it would have been obvious to one in ordinary skill in the art at the time of invention was made to incorporate the teaching of Mizushima et al. in to the teaching of Watanabe et al. to have multi-projection system serially connected, thus multi-port communication could be achieved in point to point or broadcast environment.

Regarding Claims 2,12, Kobayashi teaches the control section is configured to transmit return information, which represents a result of the processing specified by the given command, through the first communication port after the processing has been completed, and if the control section receives return information input through the second communication port, the control section transmits through the first communication port the return information given through the second communication port (Col. 11, Line 51 to Col. 12, Line 3 ).

Regarding Claims 3,13, Kobayashi teaches the command input section and wherein control section carries out processing specified by the command input through the command input section only when an initialization signal having prescribed contents is input through the first communication port, the control section neglecting the command given through the

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command input section when the input initialization signal has no prescribed contents (Col. 3, Line 48 to Col. 4, Line 12).

Regarding Claims 4,14, Watanabe et al. teaches the initialized signal having the prescribed contents is input through the first communication port and a predetermined command is input through the command input section, the control section carries out a control to display an onscreen display menu to allow input of commands addressed to an arbitrary one of a plurality of projection display apparatuses including the projection display apparatus interest (Col. 14, Lines 53-60).

Regarding Claims 5,15, Kobayashi teaches the initialized signal having the prescribed contents is input through the first communication port, the control section transmits through the second communication port a piece of information that specifies at least one of a type of image signal supplied externally and a method of signal processing to be applied for the supplied image signal, when the initialized signal having the prescribed contents is not input through the first communication port, the control section receives through the first communication port the piece of information that specifies at least one of the type of image signal supplied externally and the method of signal processing to be applied for the supplied image signal and controls a processing applied for the supplied image signal according to the received piece of information (Col. 10, Line 62 to Col. 11, Line 50).

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Regarding Claims 6,16, Watanabe et al. teaches the plurality of image signal input ports configured to receive image signals, wherein the control section an image signal input from one of the plurality of image signal input ports and controls projection and display of an image expressed by the selected image signal in response to a command given through the first communication port. (Col.12, Lines 40-58, ).

Regarding Claims 7,17, Watanabe et al. teaches the control section is configured to delay an execution timing of the processing specified by the command given through the first communication port according to the ID information stored in storage section during the broadcast. (Col. 13, Lines 1-18).

Regarding Claims 8,18, Kobayashi teaches the command input section and wherein control section carries out processing specified by the command input through the command input section only when an initialization signal having prescribed contents is input through the first communication port, the control section neglecting the command given through the command input section when the input initialization signal has no prescribed contents (Col. 10, Line 62 to Col. 11, Line 4, Line 51 to Col. 12, Line 61).

Regarding Claims 9,19, Watanabe et al. teaches the initialized signal having the prescribed contents is input through the first communication port and a predetermined command is input through the command input section, the control section carries out a control to display an onscreen display menu to allow input of commands addressed to an arbitrary one of a plurality of



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projection display apparatuses including the projection display apparatus interest (Col. 13, Lines 19-28).

Regarding Claims 10,20, Kobayashi teaches the initialized signal having the prescribed contents is input through the first communication port, the control section transmits through the second communication port a piece of information that specifies at least one of a type of image signal supplied externally and a method of signal processing to be applied for the supplied image signal, when the initialized signal having the prescribed contents is not input through the first communication port, the control section receives through the first communication port the piece of information that specifies at least one of the type of image signal supplied externally and the method of signal processing to be applied for the supplied image signal and controls a processing applied for the supplied image signal according to the received piece of information (Col. 10, Line 62 to Col. 11, Line 50 ).

#### ***Response to Arguments***

4. Applicant's arguments filed 06-12-2003 have been fully considered but they are not persuasive.

Applicant argues, the cited reference of Watanabe et al. does not teach projection display apparatus.

Examiner disagrees, as Watanabe et al. does teach projection display apparatus (transmits electronic data to be projected on a projection screen) (Col. 1, Lines 5-21, Col. 2, lines 6-16, Col. 6, Lines 11-26) and Mizushima et al. teaches projection display apparatus (optical projection

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display apparatus) (Col. 5, lines 6-15, Col. Line 36 to Col. 4, Line 14, Col. 11, Lines 50-53, Col. 12, Lines 13-25).

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is informed that all of the other additional cited references render the claims obvious.

### ***Conclusion***

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Prabodh Dharia whose telephone number is (703) 605-1231. The examiner can normally be reached Monday- Friday from 8:00 AM to 5:00 PM.

If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached at (703) 305-4938. The fax number of the group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4750.

Any response to this action should be mailed to:

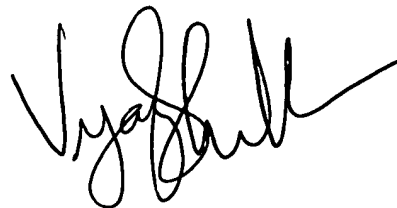
Commissioner of Patents and Trademarks

Washington, D.C. 20231

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07-07-2003

A handwritten signature in black ink, appearing to read 'Vijay Shankar', with a stylized, flowing script.

VIJAY SHANKAR  
PRIMARY EXAMINER